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(1639)

IV. Observations of the Weather, made in a Voyage to China. Ann. Dom. 1700. by Mr James Cunningham, F. R. S.

Day of the Month.	Therm. Altitud. below extreme Heat.	Philos. Altitud.	Latitude N. or S.	Longitude East from St. Jago.	Variation East or West.	Needles N or S point under the Horizon.	Inclin. or Depression of the N or S point under the Horizon.	Winds.	Weather.
Jan. 31.	5 Divil.		1° 26' N	6° 16' E		8° 30' N		Variable Breezes, and 10 Hours calm	Rainy and Cloudy
Febr. 1	4		1° 18' N	6° 11' E				N S by W S W by S and 16 hours Calm.	Rainy and cloudy with Lightning
	25		1° 14' N	6° 13' E				Variable Breezes, and 11 Hours calm	Fair
	35		1° 07' N	5° 57' E				Variable	Fair with Rain at noon
	42		0° 27' N	5° 49' E				Variable	Fair and cloudy, Rain in the forenoon
	54		0° 00'	5° 44' E				Variable with 9 hours calm	Rainy and cloudy
	64		0° 30' S	5° 35' E				Variable with 4 hours calm	Fair and cloudy with some Rain
	75		1° 46' S	5° 08' E		3° 30' S		Small Gales from E by S to S E by S	Fair and cloudy
	84 1/2		3° 00' S	4° 56' E				Easie Gales from E by S to S E by E	Fair and pleasant
	95		4° 29' S	4° 19' E				Easie at E S E, and S E by E	Fair and pleasant
	105		5° 57' S	3° 54' E		10° 00' S		Easie at S E by E and S E	Fair and pleasant
	116		7° 10' S	3° 05' E	20° 17' E			Fine Gales S E by E	Fair and pleasant
	126		8° 46' S	2° 22' E	20° E			E S E fin.	Fair and pleasant
	138		10° 29' S	1° 37' E	20° 50' E			E S E and E by S	Fair and pleasant with one Shower
	147		12° 05' S	1° 20' E	3° 30' E			E by S and E	Fair and cloudy with some Squales
	157 1/2		13° 44' S	1° 10' E	4° 12' E			E by N to E S E	Fair with one Squale
	167 1/2		15° 09' S	1° 10' E	4° 10' E	19° 00' S		E by S and E	Fair and pleasant
	178		16° 32' S	1° 14' E	4° 52' E			E	Fair and pleasant
	188 1/2		18° 02' S	1° 19' E	5° 14' E			E	Fair and cloudy with one Shower
	197 1/2		19° 14' S	1° 29' E	5° 42' E	30° 00' S		E by S to E b; N	Fair with one Shower
	208		20° 05' S	1° 15' E	6° 18' E			SE by E, & E by N finat	Fair and cloudy with several Squales
	217		21° 16' S	1° 35' E				NN E to E by N fair	Fair with 2 Showers Weather

(1641)

Day of the Month:	Therm. Altitude below ex-treme Heat.	Barom.	Latitude N. or S.	Longitude East from St Jago	Needles Variation E. or W.	Needles In-clin. or Depression of the N. or S. point under the Horiz. n.	Winds.	Weather.
28	35 $\frac{1}{2}$	30 $\frac{1}{2}$	34 03 S	50 36 E			S W by S to S by W small	Fine moderate Weather
29	33	34 $\frac{1}{2}$	34 03 S	50 36 E		48 00 S	S E small, sometimes fresh	Fair and pleasant
30	30	31	34 03 S	50 36 E			S W to S E most part calm	Fair and pleasant
31	26	25	34 03 S	50 36 E			Variable Breezes and calm	Fair and pleasant
April 1			A the Cape				S to S E small	The same
2			of				S E small	The same
3			Goud	Hope			S E and S E by S moderate	The same
4							S E and S S E small and calm	The same
5							S E by S small, at night fresh	The same
6							S E small	The same
7							Variable and calm	The same
8	30 $\frac{1}{2}$	34					Calm, at night blowing fresh	The Forenoon, foggy, Afternoon clear'd up
9			Longitude from the				S S E and S E by S blowing hard	Fair and hazy
10			C. of Good Hope				S S E and S E Gales	Fair and pleasant
11	31	29	34 45 S	50 43 W			S E by S to N E moderate	Fair and gray
12	26	28	35 01 S	50 25 W	II 49 W		Variable and small	Fair and cloudy
13	33	42 $\frac{1}{2}$	35 30 S	50 08 W			S S E to S E by E moderate	Squally
14	34 $\frac{1}{2}$	44 $\frac{1}{2}$	36 52 S	50 36 W			S E to E by N	Variable
15	25 $\frac{1}{2}$	29	37 51 S	50 13 W			E to E N E small	Fair and cloudy
16	27	31 $\frac{1}{2}$	37 57 S	50 03 E	12 40 W		S by E too W by S small, sometimes calm	Variable
17			37 41 S	38 E			S S W - E S E	Variable
18	31	38	38 45 S	33 29 E			E by S to E N E small	Fair and close
19	26	34	39 53 S	34 50 E			E by S to N E by N moderate	Fair and cloudy
20	31	39	40 42 S	35 58 E			N E by E to E by S moderate	Cloudy and overcast
21	32 $\frac{1}{2}$	34	41 06 S	37 49 E			N E by E to N E by N eastie	Moderate Weather
22	40	45 $\frac{1}{2}$	39 52 S	30 06 E			W S W to S E fresh	Variable
23	38	44	38 51 S	31 34 E	19 06 W		S E to S E small	Fair and cloudy
24	32	33 $\frac{1}{2}$	39 09 S	31 50 E			S E to N N F small	Fair and pleasant
25	39 $\frac{1}{2}$	43	39 14 S	34 37 E			Variable Gales	Fair and cloudy

Zzzzzzzzz

Weather

(1642)

Weather.	Winds.	Needles Inclination, or Depression of the N. or S. point under the Horizon.	Needles Variation E. or W.	Longitude East from the Cape of Good Hope.	Latitude N. or S.	Philof. Barom.	Therm. Altitude below the Stream Heat.	Altitud. Month.
Variable with Rain and Hail.	W by N to S W blowing hard			17 06 E	38 00 S	55	46	26
Cloudy and cloudy	S W by S to W N W fr. fr.	80 60 00 S	19 10 E	37 45 S	31	27		
Fair to W. a. cloudy	W N W to N W by N moderate		21 25 W	31 35 E	37 45 S	37	28	
Variable	N W to S W e. fee			23 32 E	37 47 S	36	25	29
Cloud Weather	W S W to S E by S small		22 27 W	23 57 E	31 30 S	33	23	30
Cle. and cloudy	N N E to E small			25 24 E	37 58 S	42	33	May 1
Cle.	N E by E to N by E easie		24 30 W	27 00 E	38 16 S	45	32	2
Cle. and Squally	N E by N to N N W fresh			29 40 E	38 47 S	40	32	3
F. and cloudy	N N W to N W feath			33 20 E	38 50 S	31 $\frac{1}{2}$	30	4
Variable and Equally	N W to S W fr. fr.	60 00 S		36 20 E	38 43 S	37	37	5
Variable and Squally	N W to S W	7		39 54 E	38 35 S	45 $\frac{1}{2}$	38 $\frac{1}{2}$	6
Fair Weather	W N W to S W moderate	8 69 00 S	42 07 E	38 17 S	45 $\frac{1}{2}$	30 $\frac{1}{2}$	7	
Variable	W N W to S W by W fr. fr.		24 20 W	45 51 E	37 49 S	53	46 $\frac{1}{2}$	8
Variable	W S W and W N W fresh			49 19 E	38 40 S	40	35	9
Variable	W by N to N W by W fresh	8 72 00 S	24 00 W	52 41 E	38 30 S	39	32	10
Moderate with some Rain	W N W and W fresh			56 08 E	38 09 S	46	35	11
The same	W to S W easie			58 16 E	37 25 S	42	32	12
Cloudy Weather	S W to N N E small		20 48 W	59 11 E	37 25 S	47 $\frac{1}{2}$	33 $\frac{1}{2}$	13
Fair and pleasant	W N' W to N W by N small	8 75 00 S	20 00 W	60 54 E	37 10 S	45 $\frac{1}{2}$	34	14
Variable	W N W to S W fr. G. - s.		19 00 W	63 29 E	37 13 S	38 $\frac{1}{2}$	30	15
Cle. and h. z. with Rain	S W to W N W e. si	6 70 00 S	18 43 W	65 04 E	36 53 S	41	34	16
Variable	W N W to N W fr. es.			17 40 W	68 14 E	36 48 S	36 $\frac{1}{2}$	17
Fair and cloudy	W N W and W by N fe	8 68 00 S		71 12 E	30 50 S	41	33	18
Most. - rare	W N W and W fresh			74 16 E	30 00 S	41	35 $\frac{1}{2}$	10
The same	N W by W to W fr.			70 30 E	35 01 S	34	31	20
The same	W by S to N W. y N	8 68 00 S	4 28 W	78 32 E	34 07 S	37	22 $\frac{1}{2}$	21
The same	N W by N and N W		14 00 W	81 01 E	33 07 S	5 $\frac{1}{2}$	21	
Variable	N W by N to N E		13 30 W	03 30 E	32 52 S	4 $\frac{1}{2}$	22	
Thick and equally	N by E to W by S			85 13 E	31 35 S	33	28 $\frac{1}{2}$	23
Variable	S W to W N W	8 68 00 S		86 28 E	30 11 S	3 $\frac{1}{2}$	35	24
Fair and pleasant	S W by W and S W by S			10 04 W	87 06 E	29 27 S	34 $\frac{1}{2}$	25

Day

(1643)

Therm.	Altitude	Philos.	Latitude N. or S.	Longitude East from the Cape of Good Hope.	Needles Inclin. or Declination of the N. or S. point under the Horizon	Winds.	Weather.
Day of Month.	the Month.	Ex- ream Heat.	Barom. Altitud.				
27	31	35	28 01 S	87 59 E	d	S W to S E small	Fair & fine
28	30	33	25 55 S	89 24 E	f	S E and S E by E	Variable
29	27	20	23 35 S	90 29 E		S E by E to S S E	Squally & Rainy with Thunder & Lightning
30	25	24	22 49 S	91 32 E	8	S E and S E by E	Variable
31	22	22	21 23 S	92 42 E	7	S E to S S E	Fair and serene
JAN 1	19	19	19 54 S	93 20 E	6	S E and S E by E	Fair and pie. faint
2	17	17	18 02 S	94 10 E		S E by E and E S E	The same
3	14	13	16 30 S	94 55 E	5	S E by E and E S E	The same
4	12	10	15 02 S	95 15 E	53 00 S	E by S to E by N	The same
5	7 1/2	7	13 40 S	95 34 E	5	E by N to E by S	The same
6	5	3	13 01 S	95 42 E	52 00 S	E to N E by E	The same
7	5	3	12 59 S	95 56 E	5	E by N to E S E	The same
8	5	3	12 26 S	96 17 E	4	E by N to S E	In long
9	5 1/2	1	11 43 S	96 28 E	4	E S E to E N E	The same
10	5	1	11 10 S	96 34 E	3	E by N and E	The same
11	4	0	10 18 S	96 54 E	3	E by N to E S E	The same
12	5	1	8 45 S	97 31 E	2	E by S to E S E	The same
13	5 1/2	1	7 52 S	97 21 E	2	E by S to N N E	The same
14	4 1/2	0	7 23 S	95 50 E		E S E to N N E	The same
15	5		6 45 S	95 16 E		S S E to S E	The same
16	4	0	5 21 S	95 00 E		S S E S S W and calm	The same
17	2 1/2	0	Java- Head			S S W, S E and c. lin	The same
18	2	0	and				
19	2	0	Batavia				
20	1	0					
21	1	0	Longitude from Batavia		40 00 S	N N E to S	The same
22	1 1/2	0		00 05 W			
23	4 1/2	0	5 27 S	00 47 E		N to S S E	The same
24	2	0	5 24 S	SI 48 E		N W by W and S W	The same
25	3	0	5 51 S	SI 55 E		S by W and S E by E	Cloudy with some Rain
26	6 1/2	2 1/2	6 12 S	SI 51 E	38 00 S	E S E to N E by E	Squally with Thunder Lightning and Rain
27	5	0	6 16 S	SI 59 E		G. lin	Cloudy with Rain
28	5	0	6 20 S	SI 02 E		E by N to E S E unid.	The same
29	5	0	6 21 S	SI 18 E		E S E and S E in it	Variable
30	5	0	6 29 S	SI 33 E		Varying breezes	Unsettled
JAN 1	4	0	6 44 S	SI 43 E		E by S to N E by E	Fair with some Rain
2	4 1/2	0	6 39 S	SI 55 E		N E by E, S E by E	Fair with some Rain
3	3 1/2	0	6 35 S	SI 34 E		S E by E to S E by E	Fair and serene
4	3 1/2	0	6 30 S	SI 49 E		N E to S S E	The same
5	5	0	6 35 S	SI 49 E	45 00 S	N E by N to S E	The same

(1644)

Weather.	Winds.	Needles Incln. or Depression of the Variatio N. or S. point under the Horizm.	Needles E or W	Longitude East from N or S Batavia	Latitude	Philos. Parom. Altitud	Therm. Altitud below Ex- tream Hea.	Day of the Month
The fine	S E small			1 07 E 0 12 S 2	8		6	
The fine	S E by S to E			1 28 E 6 44 S 0	6		7	
The fine	S E by E to E N E			1 43 E 6 22 S 0	0		8	
The fine	E by S to E by N			1 53 E 0 28 S 1	6		9	
The fine	E by E E by N			2 41 10 S 1 25 W	5 37 E 0 50 S 3	8½	10	
The fine with some Rain	E N E to S S E				5 47 E 0 44 S 0	6	11	
Fair and serene	S W N to S E				6 05 E 6 23 S 2	5	12	
The lame	S E to E by S				6 17 E 0 05 S 0	3	13	
The lame with some Rain	S E to E S E				6 54 E 5 10 S 2	6	14	
Fair and cloudy	S E by S to E S E				7 09 E 4 20 S 0	4	15	
Fair and serene	S E by E to N E by E				7 27 E 4 08 S 0	3	16	
Fair and cloudy	E to S E and calm				At the Bu. of Barneo	5	17	
Cloie and cloudy with Rain	E to S E by S small				7 30 E 4 00 S 4	8	18	
Cloie and clearing up	S E fresh				7 30 E 4 00 S 1	7½	19	
Fair and serene	S S E to S E	o 40 00 S			7 06 E 4 15 S 0	6	20	
Fair and cloudy	S E by S and S E				5 08 E 4 51 S 0	5	21	
The lame	S E by E to E by S				3 12 E 4 59 S 0	2½	22	
Cloie with some Rain	S by E to E by S				1 25 E 4 45 S 0	4	23	
Equally with Thunder	Variable				0 17 E 4 09 S 4	7	24	
Fair and cloie with Lightning	S to E by S	6 35 00 S			0 13 E 4 01 S 0	5	25	
Fair and serene	E by S to S E by S				3 32 S 0	4½	26	
Variable	E N E to S by E				In the Straights of Banda	3	27	
Fair and serene	S E by S to S				1 59 S 0	4½	28	
The lame	S E by E to S				1 59 S 0	4	29	
The lame	S E to N N E	5 31 00 S	Impul:	1 50 W	Longitude Condore	0 31 S 0	4	30
The lame	S S E to S E by S				1 25 N 0	4	31	
Fair and clie	S S E to S by W				1 36 W	3 19 N 0	2½	Aug. 1
Variable with Thunder and Lightning	S by W to S E				0 52 W	5 07 N 0	1	2
Fair and cloie	Variable				0 25 W	6 04 N 0	1	3
Fair and pleasant	S S W to S W by S				0 08 E	7 47 N 0	1	4
Fair, cloie and hazy	W to S W				1 25 E	9 16 N 0	2½	5
Fair and hazy	S W by W to W by S				3 07 E	10 14 N 0	2	6
Fair and serene	S W by W to S W by S	13 5 30 S			4 33 E	12 04 N 0	1	7
The lame	S W and S W by W	14 4 00 S			5 58 E	14 05 N 0	1	8
Fair and cloudy	W by S to S W by S				7 01 E	16 15 N 0	1½	9
Equally	Variable				7 20 E	18 14 N 0	2½	10
Equally and much o verset	W S W to W N W blowing hard				7 12 E	19 49 N 0	1½	11
Fair and cloie with some Rain	W S W to S S W moderate	1 2 30 S			7 02 E	21 17 N 0	1	12

Day

Day of the Month	Therm. Altitud below Ex- trem Heat.	Philof. Pason.	Latitude N or S Altitud	Longitude Exit from Pulo Con- jore:	Needles Variation E. or W.	In- clination or De- pression of the N. or S. point under the Horizon.	Winds.		Weather.	
							1 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₂	
13	1 ¹ / ₂ above	Extre Heat	21 58 N	7 36 E						Fair and serene
14	1 below	O	22 15 N	7 47 E		6 00 N	2	S E to N N E		Fair and pleasant with one Shower
15	I	O	22 18 N	8 09 E				E by N to N E by E		Fair and pleasant
16	O	O	22 32 N	8 43 E	1 20 W			Variable and calm		The same
17	1 ¹ / ₂	O	23 10 N	9 40 E				W S W to S W east		Fair, with some drizzle Rain
18	1 ¹ / ₂	O	23 32 N	10 04 E				Variable and small		Fair and serene
19	2 ¹ / ₂	O	23 56 N	10 18 E				N + N E by N fresh		The same
20	4	O	24 11 N	10 28 E			6	N + E to N E by N		Fair and hazy
21	I	O	24 22 N	10 43 E		12 05 N		N E by E to N by E		The same
22	3	O	24 32 N	11 01 E				N E to N N E		The same
23	4 ¹ / ₂	O	24 47 N	11 15 E				N E by E to N N E east		Fair and pleasant
24	6	O	24 56 N	11 28 E				E N E to N E by N fresh		Variable
25	5	O	25 09 N	11 38 E				E N E to N by E mod- erate		Fair and pleasant
26	6	O	25 09 N	12 08 E				N by E to N E by E		The same
27	3	O	25 07 N	12 20 E				E N E to N N E		The same
28	5	O	25 29 N	11 50 E				E by N to N N E		Variable
29	4	O	25 37 N	12 02 E				N E by E to N		Variable
30	3 ¹ / ₂	O	25 49 N	11 47 E				N by E to N E by E fresh		Cold and Squally
31	2	O	26 02 N	11 53 E				N E by N to E by N		Variable
Sep. 1	1 ¹ / ₂	O	26 05 N	11 56 E				N N E to N E by E		Fair and pleasant
2			At Croco- duelland					N E small		The same with some Rain at night
3								N N E small		Fair and pleasant
4								N by E to N E		The same
5								N E moderate		Fair and cloudy
6								N E fresh, at night SW blowing hard		The same, at night much Rain
7								N E fresh and mod- erate		Cloudy, with some Rain
8								N E moderate		Fair and pleasant, at times overcast
9	3	O	25 44 N	12 38 E				N E moderate		Fair and hazy
10	3 ¹ / ₂	O	26 11 N	12 13 E				N E by N to N E by E		The same
11	5	O	26 11 N	12 47 E				N E to N N E		The same
12	4 ¹ / ₂	O	26 22 N	12 37 E				N E by N to E by S final		Fair and pleasant
13	8 ¹ / ₂	O	26 26 N	12 40 E				E N E to N E mode- rate		Partly
14	6 ¹ / ₂	O	26 37 N	12 59 E				N N E to E N E		fair, and cloudy

(1646)

Weather.	Winds.	Needles In chain, or Devi- ation of the N. or S. point under the Horizon.	Needles Variation E. or W.	Longitude East from Paris Con- done.	Latitude N. or S.	Port Bar. m.	Altitud Ex- treme	Therm. Altitu below the steam Heat.	Dy of the Month.
Fair close and cloudy	N E by E to E by N	13. 11	E 27 05 N	0	5	15			
Fair and cloudy	E N E to N by W	14. 01	E 26 55 N	0	7	16			
The same	N 10 N E by E	14. 11	E 27 07 N	0	8	17			
Variable	N E to N by E	14. 13	E 27 26 N	1 $\frac{1}{2}$	10	18			
Fair	N by E to N E by E	14. 02	E 27 42 N	6 $\frac{1}{2}$	9	19			
Fair and cloudy	N E by E to N by E fresh	14. 25	E 27 46 N	4	7 $\frac{1}{2}$	20			
Fair and pleasant	N E to N N E mod- erate	14. 25	E 28 03 N	10	12	21			
Fair with some Rain	N E by N to N by E	15. 31	E 27 49 N	12 $\frac{1}{2}$	15	22			
Rain and cloudy	NN E to N fresh	15. 01	E 27 51 N	14	17	23			
Fair and much over- cast	N by W to N by E small	16. 26	E 27 53 N	13	14	24			
Fair and close	N by E to N E by N	15. 30	E 28 10 N	12	14	25			
Variable	N by E to E by N	15. 04	E 28 47 N	13 $\frac{1}{2}$	13 $\frac{1}{2}$	20			
Fair and pleasant	NN E to N E by E	17. 30 N	E 29 06 N	13	14	27			
Fair and cloudy	NN E to N E	14. 49	E 29 06 N	13	14	27			
Fair, & insects close	N E by N	15. 09	E 28 55 N	17	15 $\frac{1}{2}$	28			
Fair pleasant and cloudy	Variable from S S E to N W	15. 19	E 29 02 N	13	15	29			
Fair and close	W N W to N E by E	14. 55	E 29 56 N						October
Thick and foggy with Rain	N N W and N small	14. 55	E 29 56 N			2			
Variable, forenoon le- reene	N N W to N W small					3			
Variable	N to N E moderate					4			
Fair and cloudy	N N W to NW blow- ing fresh					5			
Fair and serene	Forenoon calm, after noon S E fresh					6			
Cloudy with Rain	N N E to N E moder-					7			
Cloudy and overcast	N to N N W					8			
Cloudy and hazy with Rain	N by W to N E								
Cloudy and fa- tigued	N E to S E moderate					9			
Fair and temer- tous	S E to S W small	14. 55	E 29 56 N	20	20	10			
The same	S W small	14. 20	E 30 25 N	10	12	11			
Fair and clou- dy	N N E to N E	A Civilian	E 30 25 N	15	17	12			
Fair and cloudy	N E moderate					13			
Fair and cloudy	N small					14			
Cloudy with fore- R in	N E to E moderate					15			
Thick and hazy with Rain	S E small					16			
Thick and hazy with fine Rain	S E moderate					17			

Therm. Day of the Month.	Altitude below Biom. Ex- tream Heat.	Pi' of. Altitude	L' titule N or S	Longitud Pulo from Condore, E or W	Needles Variation	Needles In- clin. or De- pression of the N or S point	Winds.	Weather.
19	23 $\frac{1}{2}$	31					N E small	Fair and cloudy
20	24	30					N N E to E N E	The same
21	24	29					N N E to S E	Cloudy with some Rain
22	25	30					N to N W fresh	Fair and cloudy
23	26	30					N by W to W N W small	Fair and pleasant
24	27 $\frac{1}{2}$	32					S and SS E small	The same
25	24	28					S E moderate	The same
26	22 $\frac{1}{2}$	26					S E to S by E moderate	The same
27	20	27					N W to N by W moderate	Cloudy with some Rain
28	30 $\frac{1}{2}$	45					N W small; sometimes fresh	Cloudy and hazy with Rain
29	45	58					N W to N moderate	The same
30	46	59					N N W to N by E small	Fair and cloudy
31	47	65					N W small	The same

Note 1. That the Altitude of the Spirits in the Thermometer and Philosophical Barometer was commonly taken at Noon.

Note 2. That the account of the Winds and Weather at Sea, is from Noon to Noon.

Note 3. That the middle Inclination of the Dipping Needles is set down with the difference also which was made, as either side of the Compas was turn'd East or West: Which difference at first was not taken notice of. From whence this difference should arise, I cannot determine, the Compas seeming to be justly pos'd and equally divided.

For the few Chasmata in the Columns of the Thermometer and Barometer, there needs no other Apology, than that I was not on board to take an account of them my self.